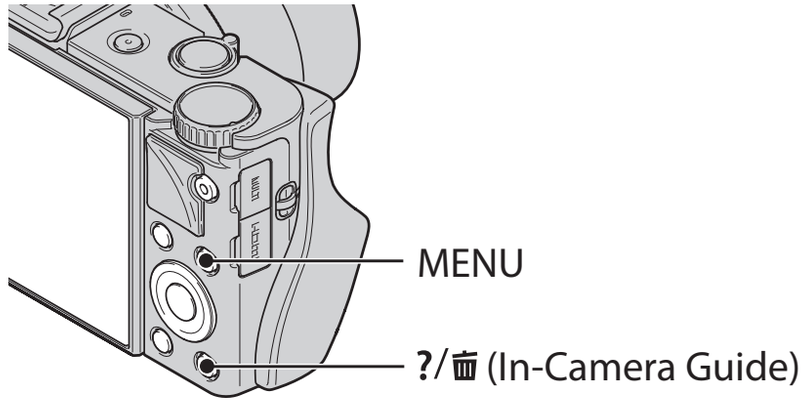
Operations Manual

HASSELBLAD

Stellar II

Viewing the Guide

This camera is equipped with a built-in instruction guide.



In-Camera Guide

The camera displays explanations for MENU items and the setting values.

1 Press the MENU button.

2 Select the desired MENU item, then press ?/🗑 (In-Camera Guide) button.

Shooting Tip

The camera displays shooting tips for the shooting mode selected.

1 Press ?/🗑 (In-Camera Guide) button in shooting mode.

2 Select the desired shooting tip, then press ● on the control wheel.

The shooting tip is displayed.

- You can scroll the screen using ▲/▼ and change shooting tips using ◄/►.

Checking the supplied items

- Camera (1)
- Rechargeable battery pack NP-BX1 (1)
- Micro USB cable (1)
- AC Adaptor (1)
- Plug adapters (for worldwide use) (7)
- Wrist strap (1)
- Getting Started Guide (1)
- Warranty/Owners Club booklet (1)
- Stellar II software CD-Rom (1)

WARNING

To reduce fire or shock hazard, do not expose the unit to rain or moisture.

IMPORTANT SAFETY INSTRUCTIONS

-SAVE THESE INSTRUCTIONS

DANGER

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS

If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.

CAUTION

Battery pack

If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions.

- Do not disassemble.
- Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.
- Do not short circuit and do not allow metal objects to come into contact with the battery terminals.
- Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.
- Do not incinerate or dispose of in fire.
- Do not handle damaged or leaking lithium ion batteries.
- Be sure to charge the battery pack using a genuine Hasselblad battery charger or a device that can charge the battery pack.
- Keep the battery pack out of the reach of small children.
- Keep the battery pack dry.
- Replace only with the same or equivalent type recommended by Hasselblad.
- Dispose of used battery packs promptly as described in the instructions.

AC Adaptor

Connect the AC Adaptor to the nearest wall outlet (wall socket).
If some trouble occurs while using the AC Adaptor, immediately shut off the power by disconnecting the plug from the wall outlet (wall socket).

The power cord (mains lead), if supplied, is designed specifically for use with this camera only, and should not be used with other electrical equipment.

For Customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit http://www.rbrc.org/

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Battery pack

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAN ICES-3 B/NMB-3 B

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR).

For Customers in Canada

This device complies with Industry Canada licence-exempt RSS standard(s).
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For Customers in the U.S.A.

UL is an internationally recognized safety organization.
The UL Mark on the product means it has been UL Listed.

Regulatory Information

Declaration of Conformity
Trade Name: Hasselblad
Model No.: Stellar II
Responsible Party: Victor Hasselblad AB
Address: Utvecklingsgatan 2,
41756 Göteborg
Sweden

This device complies with Part15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.
The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For Customers in Europe

Notice for the customers in the countries applying EU Directives

The manufacturer of this product is Victor Hasselblad AB, Utvecklingsgatan 2, 41756 Göteborg, Sweden. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

CE

This product has been tested and found compliant with the limits set out in the EMC Directive for using connection cables shorter than 3 meters (9.8 feet).

Attention

The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems.

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

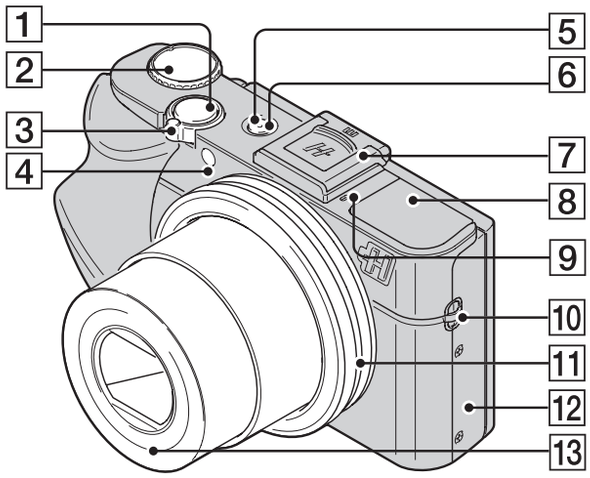
Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

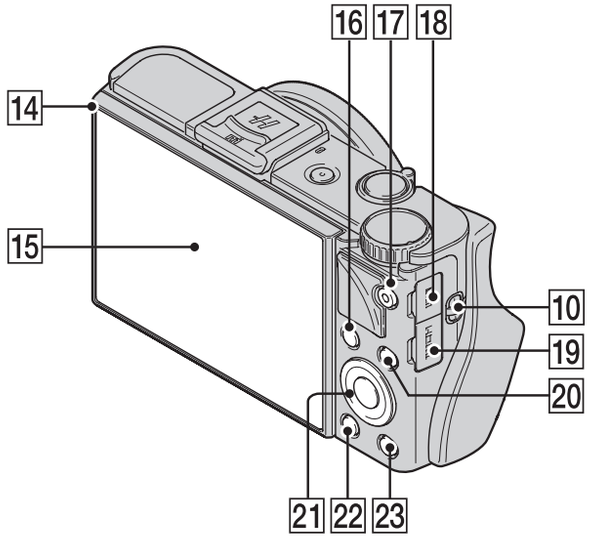
This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment.
For all other batteries, please view the section on how to remove the battery from the product safely.
Hand the battery over to the applicable collection point for the recycling of waste batteries.
For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

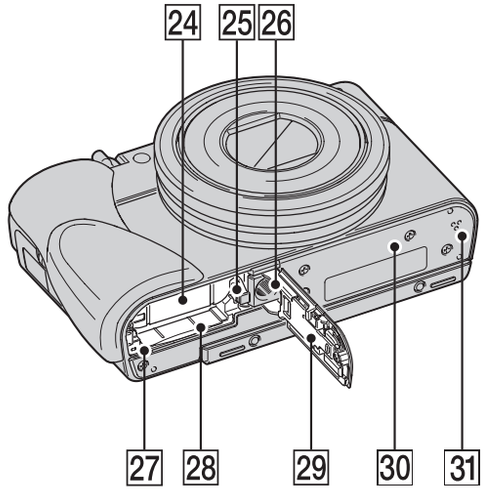
Notice for customers in the United Kingdom

A moulded plug complying with BS 1363 is fitted to this equipment for your safety and convenience.
Should the fuse in the plug supplied need to be replaced, a fuse of the same rating as the supplied one and approved by ASTA or BSI to BS 1362, (i.e., marked with an ASTA or BSI mark) must be used.
If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Hasselblad service centre.

Identifying parts







1 Shutter button

2 Mode dial
iA (Intelligent Auto)/ iA+ (Superior Auto)/
P (Program Auto)/ A (Aperture Priority)/
S (Shutter Priority)/ M (Manual Exposure)/
MR (Memory recall)/ ●REC (Movie)/
(Sweep Shooting)/ SCN (Scene Selection)

3 For shooting: W/T (zoom) lever
For viewing: Index/Playback zoom lever

4 Self-timer lamp/Smile Shutter lamp/AF illuminator

5 Power/Charge lamp

6 ON/OFF (Power) button

7 Multi interface shoe

8 Flash
- Do not cover the flash with your fingers.
- When using the flash, the flash pops up automatically. If not using the flash, press it down manually.

9 Microphone

10 Hook for strap

11 Control Ring

12 Wi-Fi sensor (built-in)

13 Lens

14 Light sensor

15 LCD screen

16 Fn (Function) button

17 MOVIE (Movie) button

18 Multi Terminal
- Supports Micro USB

19 HDMI micro jack

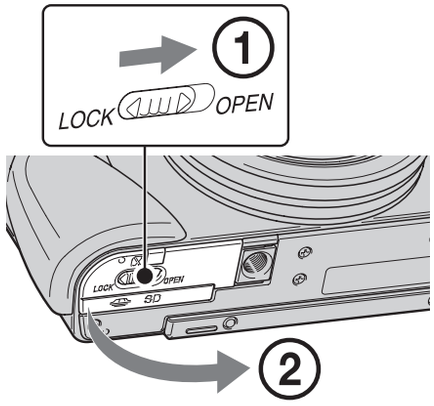
20 MENU button

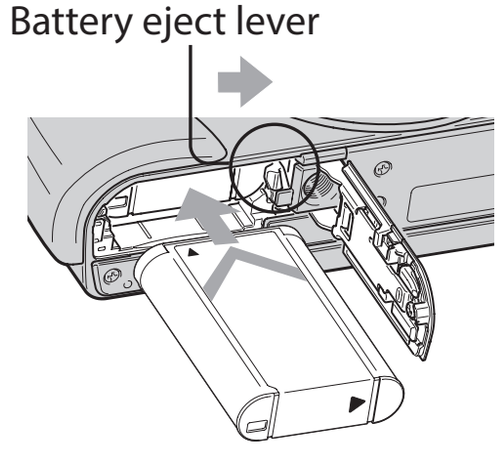
21 Control Wheel
22 ▶ (Playback) button
23 ?/🗑 (In-Camera Guide/Delete) button
24 Battery insertion slot
25 Battery eject lever
26 Tripod socket hole
- Use a tripod with a screw less than 5.5 mm (7/32 inches) long. Otherwise, you cannot firmly secure the camera, and damage to the camera may occur.

27 Access lamp
28 Memory card slot
29 Battery/Memory card cover
30 N (N Mark)
- Touch the mark when you connect the camera to a smartphone equipped with the NFC function.
- NFC (Near Field Communication) is an international standard of the short-range wireless communication technology.

31 Speaker

Inserting the battery pack

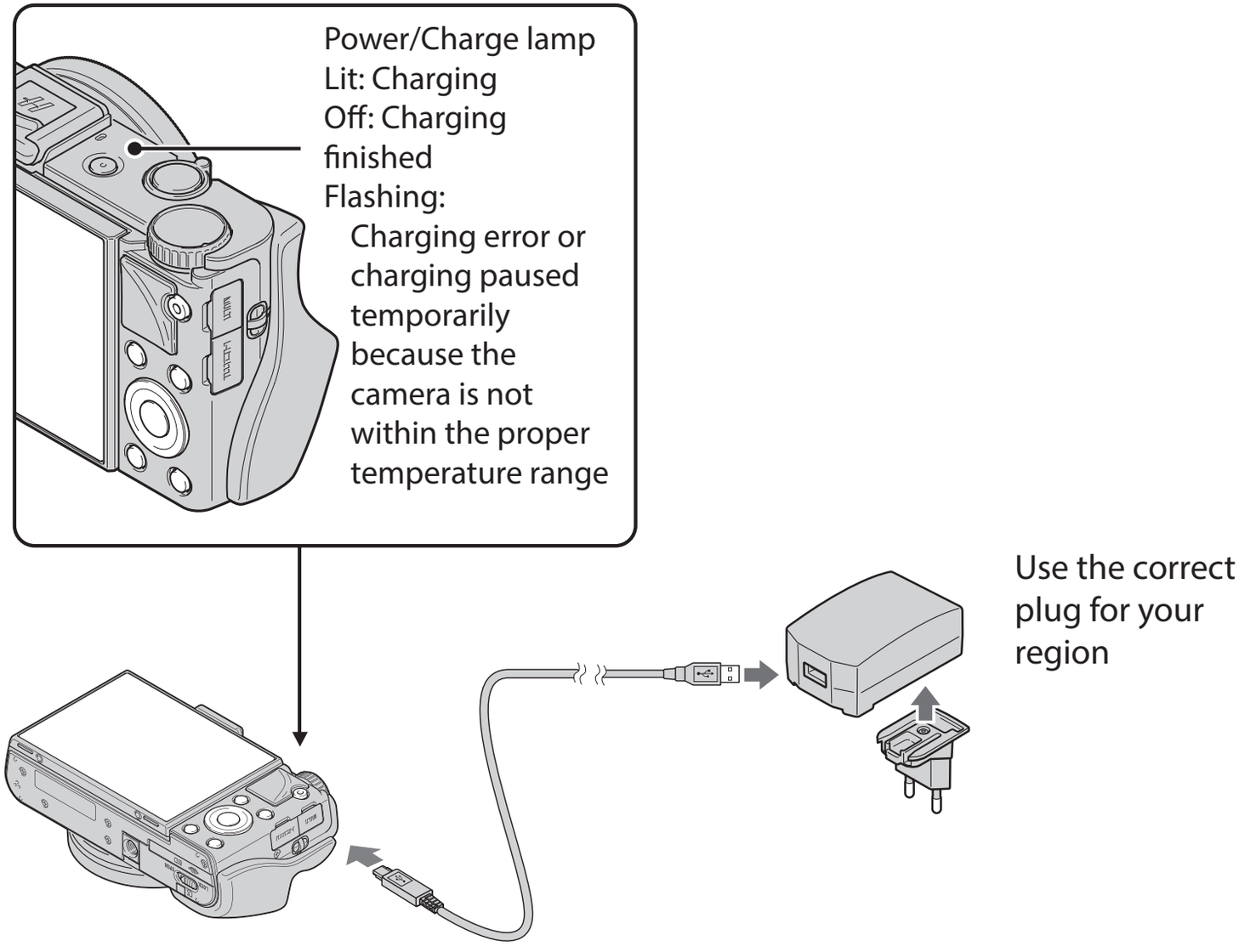




1 Open the cover.

2 Insert the battery pack.
- While pressing the battery eject lever, insert the battery pack as illustrated. Make sure that the battery eject lever locks after insertion.
- Closing the cover with the battery inserted incorrectly may damage the camera.

Charging the battery pack


Power/Charge lamp
Lit: Charging
Off: Charging finished
Flashing:
Charging error or charging paused temporarily because the camera is not within the proper temperature range
Use the correct plug for your region

1 Connect the camera to the AC Adaptor (supplied), using the micro USB cable (supplied).

2 Connect the AC Adaptor to the wall outlet (wall socket).

The Power/Charge lamp lights orange, and charging starts.

- Turn off the camera while charging the battery.
- You can charge the battery pack even when it is partially charged.
- When the Power/Charge lamp flashes and charging is not finished, remove and re-insert the battery pack.

Notes

- If the Power/Charge lamp on the camera flashes when the AC Adaptor is connected to the wall outlet (wall socket), this indicates that charging is temporarily stopped because the temperature is outside the recommended range. When the temperature gets back within the appropriate range, the charging resumes. We recommend charging the battery pack in an ambient temperature of between 10°C to 30°C (50°F to 86°F).
- The battery pack may not be effectively charged if the terminal section of the battery is dirty. In this case, wipe any dust off lightly using a soft cloth or a cotton swab to clean the terminal section of the battery.
- Connect the AC Adaptor (supplied) to the nearest wall outlet (wall socket). If malfunctions occur while using the AC Adaptor, disconnect the plug from the wall outlet (wall socket) immediately to disconnect from the power source.
- When charging is finished, disconnect the AC Adaptor from the wall outlet (wall socket).
- Be sure to use only genuine Sony brand battery packs, micro USB cable (supplied) and AC Adaptor (supplied).

Charging time (Full charge)

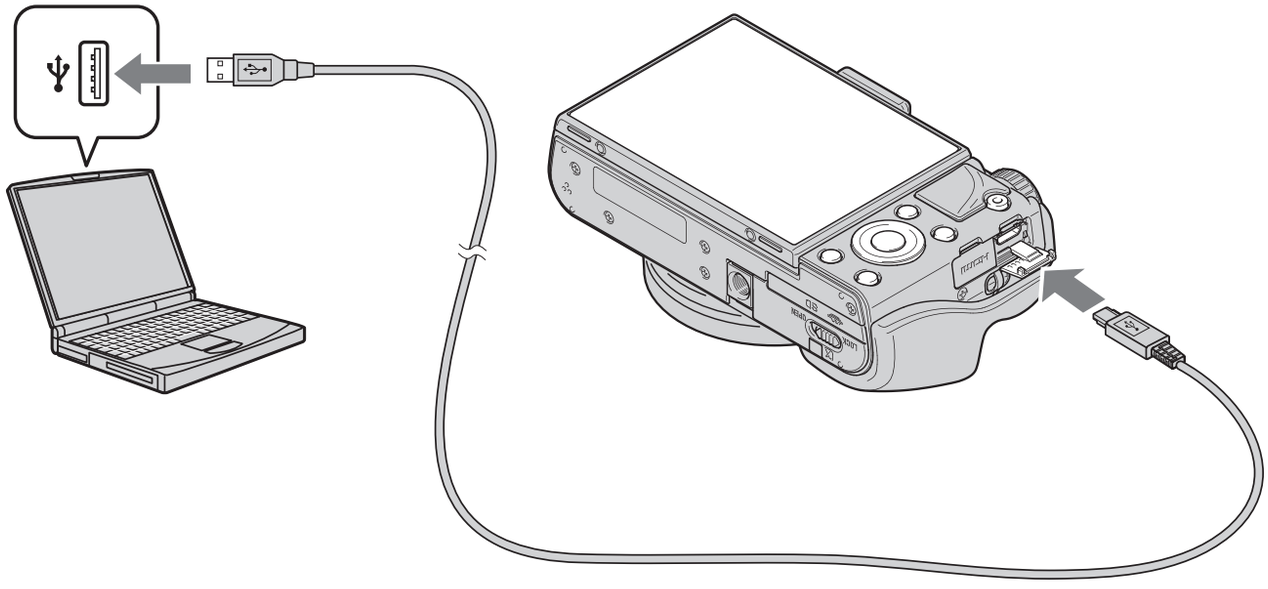
The charging time is approximately 230 min. using the AC Adaptor (supplied).

Notes

- The above charging time applies when charging a fully depleted battery pack at a temperature of 25°C (77°F). Charging may take longer depending on conditions of use and circumstances.

Charging by connecting to a computer

The battery pack can be charged by connecting the camera to a computer using a micro USB cable.



Notes

- Note the following points when charging via a computer:
  - If the camera is connected to a laptop computer that is not connected to a power source, the laptop battery level decreases. Do not charge for an extended period of time.
  - Do not turn on/off or restart the computer, or wake the computer to resume from sleep mode when a USB connection has been established between the computer and the camera. The camera may cause a malfunction. Before turning on/off, or restarting the computer or waking the computer from sleep mode, disconnect the camera and the computer.
  - No guarantees are made for charging using a custom-built computer or a modified computer.

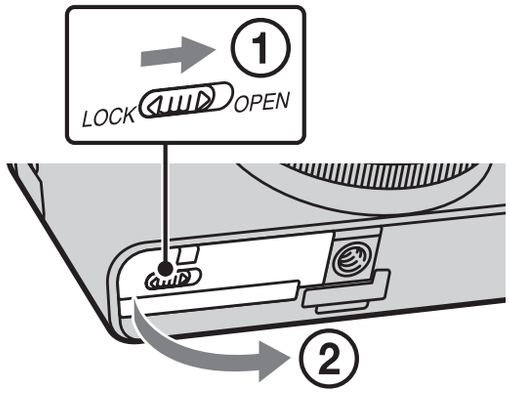
Battery life and number of images that can be recorded and played back

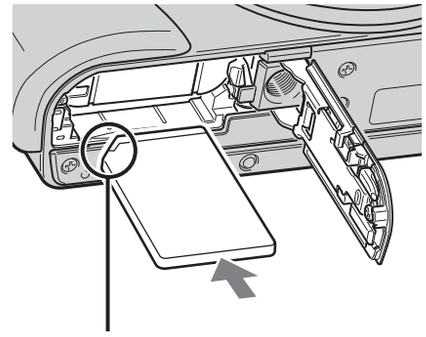
	Battery life	Number of images
Shooting (still images)	Approx 175 min.	Approx 350 images
Typical movie shooting	Approx 45 min.	–
Continuous movie shooting	Approx 80 min.	–
Viewing (still images)	Approx. 250 min.	Approx 5000 images

Notes

- The above number of images applies when the battery pack is fully charged. The number of images may decrease depending on the conditions of use.
- The number of images that can be recorded is for shooting under the following conditions:
  – Using "Memory Stick PRO Duo" (Mark2) media (sold separately)
  – The battery pack is used at an ambient temperature of 25°C (77°F).
- The number for "Shooting (still images)" is based on the CIPA standard, and is for shooting under the following conditions:
  (CIPA: Camera & Imaging Products Association)
  – DISP is set to [Display All Info.].
  – Shooting once every 30 seconds.
  – The zoom is switched alternately between the W and T ends.
  – The flash strobes once every two times.
  – The power turns on and off once every ten times.
- The battery life for movies applies shooting under the following conditions:
  – Record Setting: 60i 17M(FH)/50i 17M(FH)
  – Typical movie shooting: Battery life based on repeatedly starting/stopping shooting, zooming, turning on/off, etc.
  – Continuous movie shooting: Battery life based on non-stop shooting until the limit (29 minutes) has been reached, and then continued by pressing the MOVIE button again. Other functions, such as zooming, are not operated.

Inserting a memory card (supplied)





Ensure the notched corner faces correctly.

1 Open the cover.

2 Insert the memory card.

- With the notched corner facing as illustrated, insert the memory card until it clicks into place.

3 Close the cover.

Memory cards that can be used

	Memory card	For still images	For movies
A	Memory Stick XC-HG Duo	✓	✓
B	Memory Stick PRO Duo	✓	✓ (Mark 2 only)
	Memory Stick PRO-HG Duo	✓	✓
C	Memory Stick Micro (M2)	✓	✓ (Mark 2 only)
D	SD memory card	✓	✓ (Class 4 or faster)
	SDHC memory card	✓	✓ (Class 4 or faster)
	SDXC memory card	✓	✓ (Class 4 or faster)
E	microSD memory card	✓	✓ (Class 4 or faster)
	microSDHC memory card	✓	✓ (Class 4 or faster)
	micro SDXC memory card	✓	✓ (Class 4 or faster)

• In this manual, the products in the table are collectively referred to as follows:

A: “Memory Stick XC Duo” media
B: “Memory Stick PRO Duo” media
C: “Memory Stick Micro” media
D: SD card
E: microSD memory card

Notes

• When using “Memory Stick Micro” media or microSD memory cards with this camera, make sure to use with the appropriate adaptor.

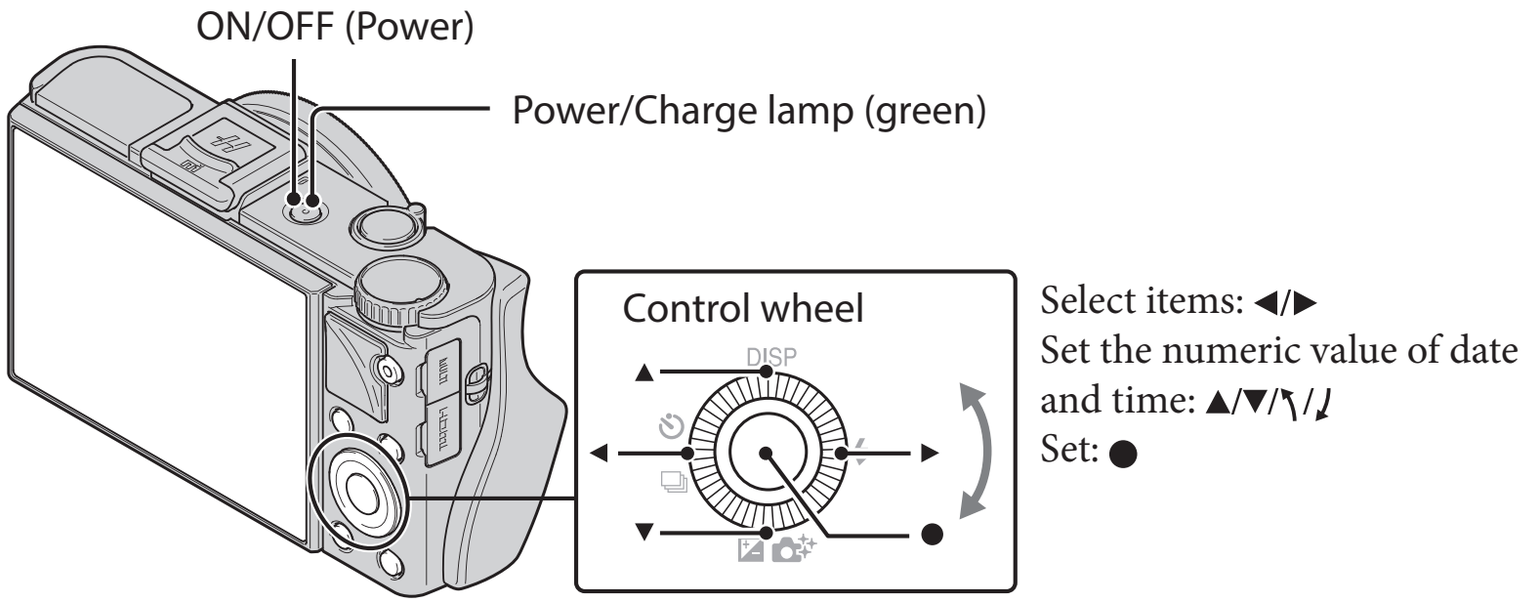
To remove the memory card/battery pack

Memory card: Push the memory card in once to eject the memory card.
Battery pack: Slide the battery eject lever. Be sure not to drop the battery pack.

Notes

• Never remove the memory card/battery pack when the access lamp is lit. This may cause damage to data in the memory card.

Setting the date & time



1 Press the ON/OFF (Power) button.

Date & Time setting is displayed when you turn on the camera for the first time.

• It may take time for the power to turn on and allow operation.

2 Check that [Enter] is selected on the screen, then press ● on the control wheel.

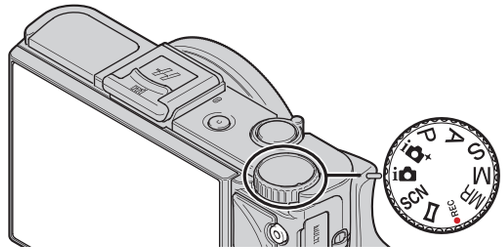
3 Select a desired geographic location by following the on-screen instructions, then press ●.

4 Set [Daylight Svg.:], date and [Date Format:], then press ●.

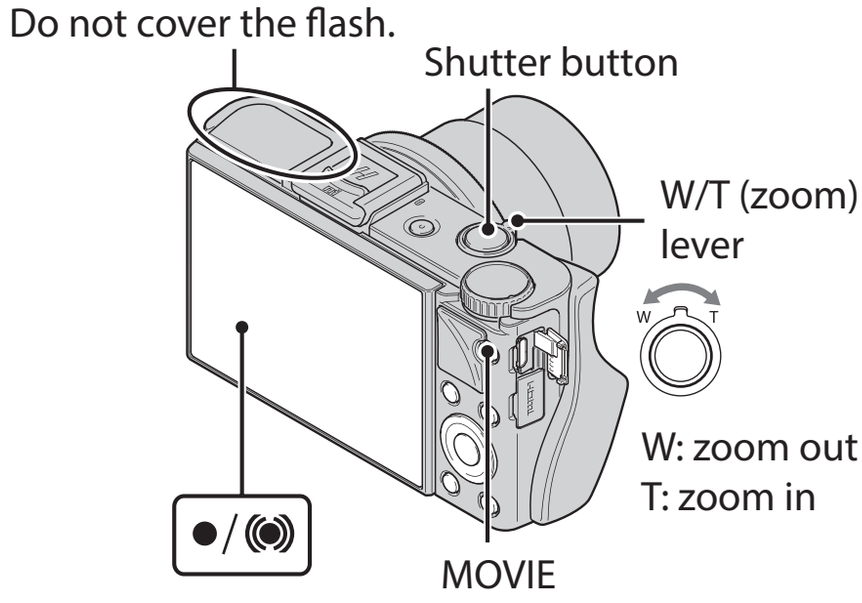
• Midnight is indicated as 12:00 AM, and noon as 12:00 PM.

5 Check that [Enter] is selected, then press ●.

Shooting still images/movie



: Intelligent Auto
REC: Movie



Shooting still images

1 Press the shutter button halfway down to focus.
When the image is in focus, a beep sounds and the ● or ((●)) indicator lights.

2 Press the shutter button fully down to shoot an image.

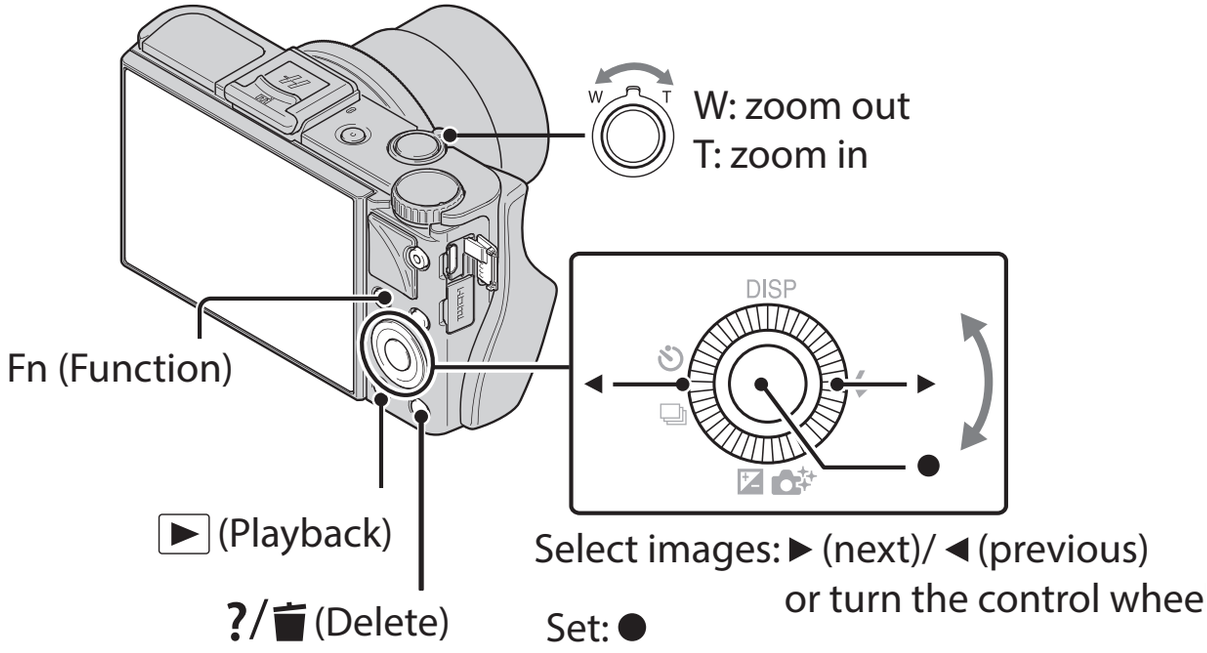
Shooting movies

1 Press the MOVIE (Movie) button to start recording.
- Use the W/T (zoom) lever to change the zoom scale.
- Press the shutter button to shoot still images while continuing to record the movie.

2 Press the MOVIE button again to stop recording.

- Do not pull up the flash manually. This may cause a malfunction.
- When using the zoom function while shooting a movie, the sound of the camera operating will be recorded. The sound of the MOVIE button operating may also be recorded when movie recording is finished.
- Continuous shooting is possible for approximately 29 minutes at one time at the camera's default settings and when the temperature is approximately 25°C (77°F). When movie recording is finished, you can restart recording by pressing the MOVIE button again. Recording may stop to protect the camera depending on the ambient temperature.

Viewing images



1 Press the ▶ (Playback) button.

- You can switch the display mode between still images and movies by selecting MENU → ▶ → [Still/Movie Select].

Selecting next/previous image

Select an image by pressing ▶ (next)/◀ (previous) on the control wheel or by turning the control wheel. Press ● in the center of the control wheel to view movies.

Deleting an image

① Press ?/🗑 (Delete) button.
② Select [Delete] with ▲ on the control wheel, then press ●.

Rotating an image

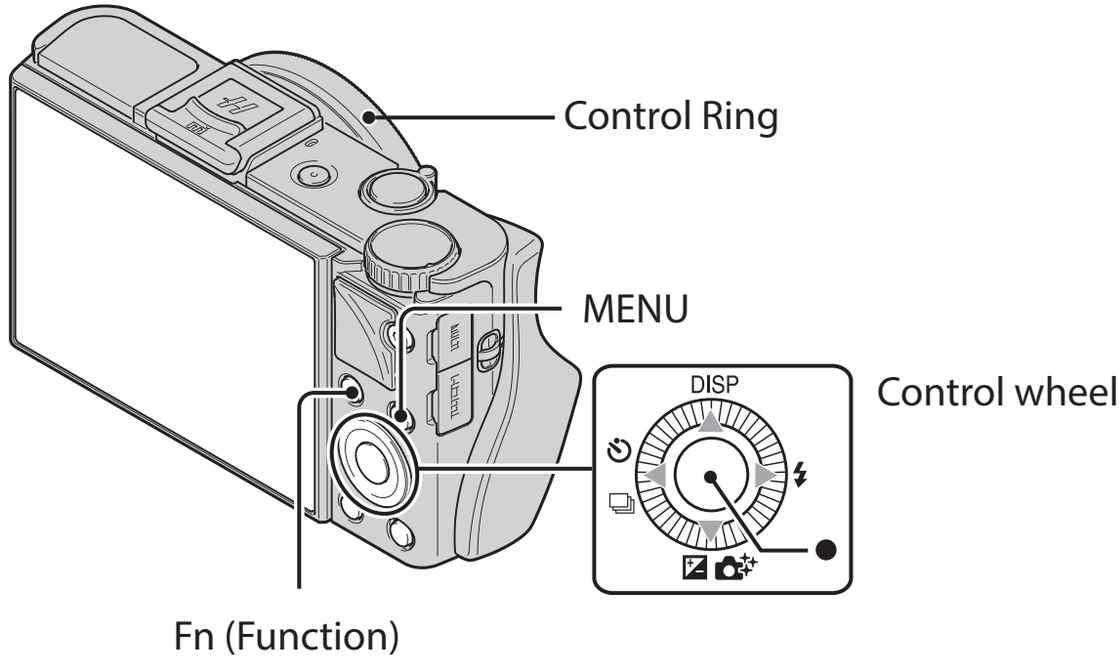
Press the Fn (Function) button.

Returning to shooting images

Press the shutter button halfway down.

Introduction of other functions

Other functions can be operated using the control wheel, MENU button, etc.



Control wheel

DISP (Display Contents): Allows you to change the screen display.

(Flash Mode): Allows you to select a flash mode for still images.

/ (Exposure Comp./Photo Creativity): Allows you to adjust image brightness. Allows you to change [Bkground Defocus], [Brightness], [Color], [Vividness] and [Picture Effect] when shooting mode is set to [Intelligent Auto] or [Superior Auto].

/ (Drive Mode): Allows you to use the self-timer and burst shooting mode.

● (Tracking focus): The camera tracks the subject and adjusts focus automatically even when the subject is moving.

Fn (Function) button

Allows you to register seven functions and recall those functions when shooting.

① Press the Fn (Function) button.

② Select the desired function using the Fn (Function) button or ◀/▶ on the control wheel.

③ Select the setting value by turning the control wheel or Control Ring.

Control Ring

Your favorite functions can be assigned to the Control Ring; when shooting, established settings can be changed just by turning the Control Ring.

Menu Items

Still shooting menu

Image size	Selects the size of still images.
Aspect ratio	Selects the aspect ratio for still images.
Quality	Sets the image quality for still images.
Panorama:Size	Selects the size of panoramic images.
Panorama: Direction	Sets the shooting direction for panoramic images.
Ctrl with Smartphone	Shoots still images and movies by controlling the camera remotely by a smartphone.
Drive Mode	Sets the drive mode, such as for continuous shooting.
Flash mode	Sets the flash settings.
Focus Mode	Selects the focus method.
Autofocus Area	Selects the area of focus.
Soft Skin Effect	Sets the Soft Skin Effect and the effect level.
Smile/Face Detection	Selects to detect faces and adjust various settings automatically. Sets to automatically release the shutter when a smile is detected.
Auto Object Framing	Analyzes the scene when capturing faces, close-ups, or subjects tracked by Tracking Focus function, and automatically trims and saves another copy of the image with a more impressive composition.

ISO	Adjusts the luminous sensitivity.
Metering Mode	Selects the metering mode that sets which part of the subject to measure to determine the exposure.
Flash Comp.	Adjusts the intensity of flash output.
White Balance	Adjusts color tones of an image.
DRO/Auto HDR	Compensates automatically for brightness and contrast.
Creative Style	Selects the desired image processing.
Picture Effect	Shoots still images with a texture unique to the selected effect.
Clear Image Zoom	Provides a higher-quality zoomed image than with Digital Zoom.
Digital Zoom	Provides zoomed images at higher magnification than with Clear Image Zoom.
Long Exposure NR	Sets noise reduction processing for shots with a shutter speed of 1/3 second or longer.
High ISO NR	Sets noise reduction processing for high-sensitivity shooting.
AF Illuminator	Sets the AF illuminator, which provides light for a dark scene to aid focusing.
SteadyShot	Sets SteadyShot.
Color Space	Changes the range of reproducible colors.
Shooting Tip List	Accesses all shooting tips.
Write Date	Sets whether to record a shooting date on the still image.
Scene Selection	Selects pre-set settings to match various scene conditions.
Memory recall	Selects settings you want to recall when the mode dial is set to [Memory recall].
Memory	Registers the desired modes or camera settings.

Movie shooting menu

File Format	Selects the movie file format.
Record Setting	Selects the size of the recorded movie frame.
Image Size(Dual Rec)	Sets the still image size shot when recording a movie.
SteadyShot	Sets SteadyShot.
Audio Recording	Sets whether to record audio when shooting a movie.
Wind Noise Reduction	Reduces wind noise during movie recording.
Movie	Selects the exposure mode to suit your subject or effect.

Custom menu

FINDER/LCD Setting	When using a electronic viewfinder (sold separately), sets the method for switching between the electronic viewfinder and screen.
Red Eye Reduction	Reduces the red-eye phenomenon when using flash.
Grid Line	Sets a grid line display to enable alignment to a structural outline.
Auto Review	Displays the captured image after shooting. Sets auto review.
DISP Button	Sets the screen display modes that can be selected by pressing DISP on the control wheel.
Peaking Level	Enhances the outline of in-focus ranges with a specific color.
Peaking Colour	Sets the colour used for the peaking function.
Control Ring	Assigns the desired functions to the Control Ring.
Zoom function on Ring	Sets the zooming function of the control ring. When you select [Step], you can move a zoom position to a fixed step of the focal length.
Control Ring Display	Sets whether to display animation when operating the Control Ring.
Function Button (Fn)	Customizes functions displayed when the Fn button is pressed.
Func. of Center Button	Assigns the desired functions to the center button.
Func. of Left Button	Assigns the desired functions to the left button.

Func. of Right Button	Assigns the desired functions to the right button.
MOVIE button	Sets whether to always activate the MOVIE button.
MF Assist	Displays an enlarged image when focusing manually.
Focus Magnif. Time	Sets the length of time the image will be shown in an enlarged form.
Face Priority Tracking	Sets whether to track faces as a priority when tracking.
Face Registration	Registers or changes the person to be given priority in the focus.

▶ Playback menu

Send to Smartphone	Transfers images to display on a smartphone.
Send to Computer	Backs up images by transferring them to a computer connected to a network.
View on TV	You can view images on a network-enabled TV.
Still/Movie Select	Switches between still image/movie displays.
Delete	Deletes an image.
Slide Show	Shows a slide show.
Image Index	Displays multiple images at the same time.
Protect	Protects the images.
Specify Printing	Adds a print order mark to a still image.
Picture Effect	Adds various textures to images.
Volume Settings	Adjusts the volume.
Playback Display	Sets how to play back an image recorded in portrait.

Memory Card Tool menu

Format	Formats the memory card.
File Number	Sets the method used to assign file numbers to still images and movies.
Select REC Folder	Changes the selected folder for storing images.
New Folder	Creates a new folder for storing still images and movies (MP4).
Recover Image DB	Recovers the image database file and enables recording and playback.
Display Card Space	Displays the remaining recording time of movies and the recordable number of still images on the memory card.

Clock setup menu

Date/Time Setup	Sets date and time, and daylight savings.
Area Setting	Sets the location of use.

Setup menu

Menu start	Sets the default position of the cursor on the menu to the top item or the last-selected item.
Mode Dial Guide	Turns the mode dial guide (the explanation of each shooting mode) on or off.
LCD Brightness	Sets the screen brightness.
Viewfinder Bright.	When using an electronic viewfinder (sold separately), sets the brightness of the electronic viewfinder.
Power Save	Sets the level of the power saving feature.
Power Saving Start Time	Sets the length of time until the camera turns off automatically.
PAL/NTSC Selector (only for 1080 50i compatible models)	By changing the TV format of the device, shooting in a different movie format is possible.
Upload Settings*1	Sets the upload function of the camera when using an Eye-Fi card.

* Appears when an Eye-Fi card (sold separately) is inserted into the camera.

HDMI Resolution	Sets the resolution when the camera is connected to an HDMI TV.
CTRL FOR HDMI	Operates the camera from a TV that supports “BRAVIA” Sync.
USB Connection	Sets the USB connection method.
USB LUN Setting	Sets the mode when the camera is connected to a computer using a USB connection.
USB Power Supply	Sets whether to supply power using a USB connection.
Audio signals	Sets the operating sound of the camera.
WPS Push	You can register the access point to the camera easily by pushing the WPS button.
Access Point Settings	You can register your access point manually.
Edit Device Name	You can change the device name under Wi-Fi Direct, etc.
Display MAC Address	Displays the MAC address of the camera.
SSID/PW Reset	Resets the SSID and password of smartphone connection.
Airplane Mode	You can set this device to not perform wireless communications.
Version	Displays the camera software version.
Language	Selects the language.
Drop Sensor	Sets the [Drop Sensor] function.
Demo Mode	Sets demonstration playback of a movie to on or off.
Initialize	Restores settings to their defaults

Install "PlayMemories Home" (Windows)

1 Insert the Stellar II CD-Rom and run "start.exe"

2 Choose Your Language

3 Choose "Downloads"

4 Click on "PlayMemories Home"
The software will now be downloaded to your preferred download folder.

5 Run "PMHOME_2003DL.exe" and follow the instructions on screen.

Install "PlayMemories Home" (Mac)

1 Insert the Stellar II CD-Rom

2 Choose Your Language

3 Open the "Installation" file

4 Click the PMH link and follow the instructions on screen.

Features of "PlayMemories Home"

Below are examples of the functions available when you use "PlayMemories Home". To take advantage of the various "PlayMemories Home" functions, connect to the Internet and install the "Expanded Feature".

- You can import images shot with the camera to a computer and display them.
- You can display images stored on a computer by shooting date in a calendar display.
- You can correct (Red Eye Correction, etc.) still images, print the images, send images by e-mail, and change the shooting date and time.
- You can save and print images with the date.
- You can create a disc from AVCHD movies imported to a computer. (Expanded Feature)

Install "Image Data Converter" (Windows)

"Image Data Converter" allows you to develop RAW images.

1. **Insert the Stellar II CD-Rom and run "start.exe"**
2. **Choose Your Language**
3. **Choose "Image Data Converter"**
4. **Click on "Install IDC" and follow the instructions on screen.**

Install "Image Data Converter" (Mac - English version)

1. **Insert the Stellar II CD-Rom**
2. **Choose Your Language**
3. **Open the "Installation" file**
4. **Click the IDC link and follow the instructions on screen.**

Install "Image Data Converter" (Mac - All Non-English versions)

1. **Insert the Stellar II CD-Rom**
2. **Choose Your Language**
3. **Open the "Installation" file**
4. **Click the IDC link and follow the instructions on screen.**

Number of still images and recordable time of movies

The number of still images and recordable time may vary depending on the shooting conditions and the memory card.

Still images
Image Size: L: 20M
When [Aspect Ratio] is set to [3:2]*

Quality \ Capacity	2 GB
Standard	295 images
Fine	170 images
RAW & JPEG	58 images
RAW	88 images

* When the [Aspect Ratio] is set to other than [3:2], you can record more pictures than shown above. (Except when [Quality] is set to [RAW].)

Movies

The table below shows the approximate maximum recording times. These are the total times for all movie files. Continuous shooting is possible for approximately 29 minutes.
The maximum size of an MP4-format movie file is up to approximately 2 GB.

Record Setting \ Capacity	2 GB
60i 24M(FX)/50i 24M(FX)	10 m
60i 17M(FH)/50i 17M(FH)	10 m
60p 28M(PS)/50p 28M(PS)	9 m
24p 24M(FX)/25p 24M(FX)	10 m
24p 17M(FH)/25p 17M(FH)	10 m
1440×1080 12M	15 m
VGA 3M 1 h	1 h 10 m

(h (hour), m (minute))

- The recordable time of movies varies because the camera is equipped with VBR (Variable Bit Rate), which automatically adjusts image quality depending on the shooting scene. When you record a fast-moving subject, the image is clearer but the recordable time is shorter because more memory is required for recording.
  The recordable time also varies depending on the shooting conditions, the subject or the image quality/size settings.

Notes on using the camera

Functions built into this camera

- This manual describes 1080 60i-compatible devices and 1080 50i compatible devices. To check whether your camera is a 1080 60i-compatible device or 1080 50i compatible device, check for the following marks on the bottom of the camera.
  1080 60i-compatible device: 60i
  1080 50i-compatible device: 50i
- This camera is compatible with 1080 60p or 50p-format movies. Unlike standard recording modes up to now, which record in an interlacing method, this camera records using a progressive method. This increases the resolution, and provides a smoother, more realistic image.

On use and care

Avoid rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping, or stepping on the product. Be particularly careful of the lens.

Notes on recording/playback

- Before you start recording, make a trial recording to make sure that the camera is working correctly.
- The camera is neither dust-proof, nor splash-proof, nor water-proof.
- Avoid exposing the camera to water. If water enters inside the camera, a malfunction may occur. In some cases, the camera cannot be repaired.
- Do not aim the camera at the sun or other bright light. It may cause the malfunction of the camera.
- If moisture condensation occurs, remove it before using the camera.
- Do not shake or strike the camera. It may cause a malfunction and you may not be able to record images. Furthermore, the recording media may become unusable or image data may be damaged.

Do not use/store the camera in the following places

- In an extremely hot, cold or humid place
  In places such as in a car parked in the sun, the camera body may become deformed and this may cause a malfunction.
- Storing under direct sunlight or near a heater
  The camera body may become discolored or deformed, and this may cause a malfunction.
- In a location subject to rocking vibration
- Near a location that generates strong radio waves, emits radiation or is strongly magnetic place.
  Otherwise, the camera may not properly record or play back images.
- In sandy or dusty places
  Be careful not to let sand or dust get into the camera. This may cause the camera to malfunction, and in some cases this malfunction cannot be repaired.

On carrying

Do not sit down in a chair or other place with the camera in the back pocket of your trousers or skirt, as this may cause malfunction or damage the camera.

Carl Zeiss lens

The camera is equipped with a **Carl Zeiss** lens which is capable of reproducing sharp images with exellent contrast. The lens for the camera has been produced under a quality assurance system certified by **Carl Zeiss** in accordance with the quality standards of **Carl Zeiss** in Germany.

Notes on the screen

The screen is manufactured using extremely high-precision technology so over 99.99% of the pixels are operational for effective use. However, some tiny black and/or bright dots (white, red, blue or green) may appear on the screen. These dots are a normal result of the manufacturing process, and do not affect the recording.

Notes on the flash

- Do not carry the camera by the flash unit, or use excessive strength on it.
- If water, dust or sand get into the open flash unit, it may cause a malfunction.

On camera's temperature

Your camera and battery may get hot due to continuous use, but it is not a malfunction.

On the overheat protection

Depending on the camera and battery temperature, you may be unable to record movies or the power may turn off automatically to protect the camera.
A message will be displayed on the screen before the power turns off or you can no longer record movies. In this case, leave the power off and wait until the camera and battery temperature goes down. If you turn on the power without letting the camera and battery cool enough, the power may turn off again or you may be unable to record movies.

On charging the battery

If you charge a battery that has not been used for a long time, you may be unable to charge it to the proper capacity.
This is due to the battery characteristics, and is not a malfunction. Charge the battery again.

Warning on copyright

Television programs, films, videotapes, and other materials may be copyrighted.
Unauthorized recording of such materials may be contrary to the provisions of the copyright laws.

No compensation for damaged content or recording failure

Hasselblad cannot compensate for failure to record or loss or damage of recorded content due to a malfunction of the camera or recording media, etc.

Cleaning the camera surface

Clean the camera surface with a soft cloth slightly moistened with water, then wipe the surface with a dry cloth. To prevent damage to the finish or casing:

– Do not expose the camera to chemical products such as thinner, benzine, alcohol, disposable cloths, insect repellent, sunscreen or insecticide.

Maintaining the screen

- Hand cream or moisturizer left on the screen may dissolve its coating. If you get any on the screen, wipe it off immediately.
- Wiping forcefully with tissue paper or other materials can damage the coating.
- If fingerprints or debris are stuck to the screen, we recommend that you gently remove any debris and then wipe the screen clean with a soft cloth.

Note on wireless LAN

We assume no responsibility whatsoever for any damage caused by unauthorized access to, or unauthorized use of, destinations loaded on the camera, resulting from loss or theft.

Note on disposal/transfer of the camera

To protect personal data, perform the following when disposing of or transferring the camera.

- Reset all camera settings by performing [Initialize].
- Delete all registered people's faces from [Face Registration].

Specifications

Camera

[System]

Image device: 13.2 mm × 8.8 mm (1.0 type)
Exmor R CMOS sensor
Total number of pixels:
Approx. 20.9 Megapixels
Effective number of pixels:
Approx. 20.2 Megapixels
Lens: Carl Zeiss Vario-Sonnar T* 3.6× zoom lens
f = 10.4 mm – 37.1 mm (28 mm –100 mm (35 mm film equivalent)) F1.8 (W) – F4.9 (T)
While shooting movies (16:9): 29 mm – 105 mm*1
While shooting movies (4:3): 36 mm – 128 mm*1
*1When [SteadyShot] is set to [Standard]
SteadyShot: Optical
Exposure control: Automatic exposure, Aperture priority, Shutter priority, Manual exposure, Scene Selection (13 modes)
White balance: Automatic, Daylight, Shade, Cloudy, Incandescent, Fluorescent (Warm White/ Cool White/Day White/Daylight), Flash, Color temperature/Color filter, Custom
File format:
Still images: JPEG (DCF, Exif, MPF Baseline) compliant, RAW (Sony ARW 2.3 Format), DPOF compatible
Movies (AVCHD format): AVCHD format Ver. 2.0 compatible
Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator

• Manufactured under license from Dolby Laboratories.
Movies (MP4 format): Video: MPEG-4 AVC/H.264 Audio: MPEG-4 AAC-LC 2ch
Recording media: “Memory Stick XC Duo” media, “Memory Stick PRO Duo” media, “Memory Stick Micro” media, SD cards, microSD memory cards
Flash: Flash range (ISO sensitivity (Recommended Exposure Index) set to Auto):
Approx. 0.3 m to 15.0 m (0.98 ft. to 49.21 ft.) (W)
Approx. 0.55 m to 5.7 m (1.80 ft. to 18.70 ft.) (T)

[Input and Output connectors]

HDMI connector: HDMI micro jack Multi Terminal*: USB communication
USB communication: Hi-Speed USB (USB 2.0)
* Supports Micro USB compatible device.

[Screen]

LCD screen: 7.5 cm (3.0 type) TFT drive
Total number of dots: 1 228 800 dots

[Power, general]

Power: Rechargeable battery pack NP-BX1, 3.6 V
AC Adaptor, 5 V
Power consumption (during shooting): 1.5 W
Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
Storage temperature: –20 °C to +60 °C (–4 °F to +140 °F)
Dimensions (CIPA compliant):
108 mm × 63 mm × 39 mm (W/H/D)
Mass (CIPA compliant) (including NPBX1 battery pack, and SD card): Approx. 298 g
Microphone: Stereo
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III: Compatible

[Wireless LAN]

Supported standard: IEEE 802.11 b/g/n
Frequency: 2.4GHz
Supported security protocols:
    WEP/WPA-PSK/WP A2-PSK
Configuration method:
    WPS (Wi-Fi Protected Setup) / manual
Access method: Infrastructure Mode
NFC: NFC Forum Type 3 Tag compliant

AC Adaptor

Power requirements: AC 100 V to 240 V,
    50 Hz/60 Hz, 0.2 A
Output voltage: DC 5 V, 1 500 mA
Operating temperature: 0 °C to 40 °C
Storage temperature: –40 °C to +85 °C
Dimensions:
    Approx. 75 mm × 33 mm × 45 mm (W/H/D)
Mass: Approx. 75 g

Rechargeable battery pack NP-BX1

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Maximum charge voltage: DC 4.2 V
Maximum charge current: 1.89 A
Capacity: 4.5 Wh (1 240 mAh)

Design and specifications are subject to
change without notice.

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Works with PlayStation®3

- Add further enjoyment with your PlayStation 3 by downloading the application for PlayStation 3 from PlayStation Store (where available.)
- The application for PlayStation 3 requires PlayStation Network account and application download. Accessible in areas where the PlayStation Store is available.

Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.

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